Personator/blastbod	Matrix	Field Samples	Bágd		Qi	C Sample Sun	жагу		Timel Field and CA/OX Analyses (not including Ats/MSD7		
				Dup	Trip <sup>†</sup> Blanks	Primsete <sup>Nd</sup> Blanks	Fleid' Blenks	MS/NGD			
Alkalininy (SNX 22208) (Total Haveness, HCO3, CO3) (23208, 23408)	drinking water	60	p	6	o	o	3	q	71		
Alcohols: Ethanol, methanol, 1-propanol, 2- butanol, 2-butanol (80150)	drinking water	60	0	6	0	ø	ş	.3	71		
Anions, Chloride, Bromide, Fluoride, Hitrate/Nitrite as M. Orthophosphorus as P. Sullate as SO4 (300.0)	drinking water	60	0	6	0	ø	3	٥	71		
Bacteria (total coliform, HPC)	drinking water	60	0	6	0	0	Ś	0	71		
d <sup>ST</sup> C and d'H of methane (isotech)	drinking water	10	٥	ø	D	9	0.	ø	10		
d <sup>11</sup> C of inorganic carbon (isotech)	drinking water	10	0	ø	ō	ò	0	ïD.	10		
Correlate compositional analysis of headspace gas (Isotech)	drinkling water	10	0	ø	D.	0	0	0	10		
Diss gases methene, ethane, ethane (isotech):	drinking water	10	ø	0	Đ	0	ó	o.	10		
Dissolved Gases, Methane, Elfune, & Ethure (ASK 175)	drinking water	60	10	6	ō	0	\$	0	71.		
Ethylene Glycol (80)5Mj	drinking water	60	ø	6	٥	o	5	0	71		
DRIC (8015M)	drinking water	60	0	6	0	9	5	0	72		
GRO (BOX SAN)	drinking water	60	ю	6	o	ō	5	¢.	71		
Garrena Spec (H.40, Ra-226, Ra-228, Th-252, Th- 234, U-254, U-255, U-258) (901.3)	drinking wester	60	0	6	Đ.	ø	5	0:	71		
Giyeois incl. 2-Butoxyethunoi (83]6)	drinking water	60	ø	6	.0	5	\$	0	n		
Gross Alpha/Beta (900,0)	donking water	60	0	6	Đ.	0	5	á	71.		
Metalis Al, Ca, Cr, Co, Fe, Mg, Rifs, Mr, Na, As, Se, Zh, Ti, Sr, Ba, Sri, Sh, Be, Cd, Co, Ti, U, VA, Mg (200:8/245:1)	drinting water	50	-6	6	. 0	ø	5	6	71		
Merzeli: Al, Cz. Cr. Cu, Fe, Meg. Adn. No, Na, Az, Se, Zn, Ti, Sr. Dia, Sn. Sh. Be, Cd. Co. Ti, U, W. Hig (200.8/245.1)	Filtered drinking water	60	0	å	0	9	3	6	n		
Methylene Blue Active Substances (MBAS) (SM SSADC)	drinking water	-60	9	6	٥	6	3	a	73		
Nitrate/Nitrite (353.2)	erinklag water	10	0	6	0	0	\$	o	71		
ON & Greate (HEM) (1664A)	drinking water	-60:	0	Б	0	a	\$	0	71		
p# (9040C)	drinking water	60	ó	6	0	9	\$	g	71:		
Phosphores, Total (365.1)	drinking. water	60	0	5.	0	0	S.	o	71		
Rb-226 (903.1)	drinking water	60	ō	6	o	o	s	g	71		
Na: 228 (904.0)	drinking water	60	o o	6	0	o	5	o	71		
Semi-Volatiles (TC), plus TICs) (CLP Trace plus TICS) (OxCO3:2)	drinking water	60	ø	6	ō	o	5	3	71		
Solids, Total Dissolved (YOS) (2540C)	drinking water	60	٥	6	0	0	5	ø	21		
Solids, Total Suspended (755) (25400)	drinking water	60	o	5	0	ø	5	ø	- 73		
Stable isotopes of water (0,H1 lisotech)	drinking water	10	ō	0	ů.	a	c.	b.	10		
Turbidity, Nephelometric (180.1)	drinking water	.90	Đ	6	.0	0	5	e	71		
Z-Methorrethanof (80196)	drinkling water	60	0	6	٥	¢	,	0	71		
I-methylnapthalene (8270 or equivalent)	drinking water	.66:	6	6	٥	0	\$	0	71		
Volatiles incl. Accydonitrile (TCL plus TiCs) (CLP Trace - 0.5 ug/L (01) (01,003.21	drinking . water	:60	Ö	6	3 per cooler	o	ŧ	3	72 + Trip Blanks for Coolers		
Notes:  1. This OA sample will be an aqueous marrix.  2. Sample to be collected only if non-dedicated.  2. Estimate based on 5 sampling days.  Kdy:	sampling equ	हिमाजारी के अडकती.									
Bligd + Background	QA/QC = Qu	ality assurance/quality (	ionsrol								

Contract No. EP-53-10-14

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# TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

#### Fort Meade Lab

Parameter/Method	Matrix	Field	I Rhad		Total Field and QA/QC Analyses (not				
		Samples		Dup	Trip¹ Blanks	Rinsate <sup>t 2</sup> Blanks	Field' Blanks	MS/MSD	including MS/MSD) <sup>3</sup>
Alkalinity (SM 2320B) (Total Hardness, HCO3, CO3) (2320B, 2340B)	drinking water	60	o	6	0	0	5	0	71
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	drinking water	60	0	6	0	0	5	3	71
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	drinking water	60	0	6	o	0	.5	0	71;
Glycols incl. 2-Butoxyethanol (8321 Modified)	drinking water	60	0	6	0	0	.5	0	71
Ethylene Giycol (8015M)	drinking water	60	o	6	0	0	5	0	71
2-Methoxyethanol (8321 and OLCO3.2)	drinking water	60	0	6	0	o	5	0	71
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Li, Hg (200.8/245.1)	drinking water	60	0	6	0	0	5	6	71
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Li, Hg (200.8/245.1)	Filtered drinking	60	0	6	0	0	5	6	71
pH (9040C)	drinking water	60	0	6	0	0	5	0	71
Phosphorus, Total (365.1)	drinking water	60	0	6	0	0	5	0	71
Nitrate/Nitrite (353.2)	drinking water	60	0	6	0	0	5	0	71
Semi-Volatiles (TCL plus TiCs) (CLP Trace plus TiCs) (OLC03.2)	drinking water	60	o	6	0	o	5	3	71
1-methylnapthalene (8270 or equivalent)	drinking water	60	0	6	0	0	5	0	71
Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	drinking water	60	0	6	1 per cooler	0	5	3	71 + Trip Blanks for Coolers
Oil & Grease (HEM) (1664A)	drinking	60	0	6	0	0	5	0	71
Solids, Total Dissolved (TDS) (2540C)	drinking	60	0	6	0	0	5	0	71
Solids, Total Suspended (TSS) (25400)	drinking	60	0	6	0	0	5	0	71

This QA sample will be an aqueous matrix.
 Sample to be collected only if non-dedicated sampling equipment is used.
 Estimate based on 5 sampling days

Bkgd = Background

MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit. Dup = Duplicate

QA/QC = Quality assurance/quality control

Sr = Strontium

Contract No. EP-S3-10-14

DIM0187431

DIM0187433

#### FIELD AND QC SAMPLING SUMMARY

## DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

EPA Region 9 Lab

		Field Samples	Bked		QC	Total Field and			
Parameter/Method	Matrix			Dup	Trip <sup>1</sup> Blanks	Rinsate <sup>1/2</sup> Blanks	Field¹ Blanks	MS/MSD	QA/QC Analyses (not including MS/MSD) <sup>3</sup>
Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	drinking water	60	0	6	0	0	5	О	71
DRO (8015M)	drinking	60	0	6	0	0	5	0	71
GRO (8015M)	drinking	60	0	6	0	0	.5	0	. 71
Notes:  1. This QA sample will be an aqueous matrix.  2. Sample to be collected only if non-dedicated sampling equipment is used.  3. Estimate based on 5 sampling days.	Key:  Bkgd = Background  MS/MSD = Matrix Spike/Matrix Spike Duplicate  CRQL = Contract-Required Quantitation limit.  Dup = Duplicate					QA/QC = Qual Sr = Strontium		e/quality co	ntroi

#### FIELD AND QC SAMPLING SUMMARY

## DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

	EPA Region 2	Lab							
X		Matrix Field Samples	Rkad  -		Total Field and				
Parameter/Method	Matrix			Dup	Trip <sup>1</sup>	Rinsate <sup>112</sup>	Field'	MS/MSD	QA/QC Analyses (not
Methylene Blue Active Substances (MBAS) (SM 5540C)	drinking	60	0	6	0	0	5	0	71
Notes:  1. This QA sample will be an aqueous matrix. 2. Sample to be collected only if non-dedicated sampling equipment is used. 3. Estimate based on 5 sampling days	Key:  Bkgd ** Background  MS/MSD = Matrix Spike/Matrix Spike Duplicate  CRQL = Contract-Required Quantitation limit.						ntrol		
	Dup ≈ Duplica	ate							

#### FIELD AND QC SAMPLING SUMMARY

DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

#### Isotech Lab

	Matrix	Field Samples		Louis de la la	Total Field and				
Parameter/Method			Bkgd	Dup	Trip <sup>1</sup> Blanks	Rinsate <sup>rrz</sup> Blanks	Field' Blanks	MS/M5D	QA/QC Analyses (not including MS/MSD) <sup>3</sup>
d <sup>13</sup> C and d <sup>2</sup> H of methane (isotech)	drinking water	10	0	0	0	Ō	o	ō	10
d <sup>13</sup> C of inorganic carbon (isotech)	drinking water	10	0	.0	0	O	0	0	10
Stable isotopes of water (O,H) (isotech)	drinking water	10	0	.0	o	o	Ò	0	10
Complete compositional analysis of headspace gas (isotech)	drinking	10	0	0	0	.0	. 0	Ō	10
Diss. gases methane, ethane, ethene (isotech)	drinking	10	0	0	0	0	0	0	10
Notes:	Key:	•	***************************************	•	······································				

1. This QA sample will be an aqueous matrix.

2. Sample to be collected only if non-dedicated sampling equipment is used.

3. Estimate based on 5 sampling days

Bkgd = Background

MS/MSD = Matrix Spike/Matrix Spike Duplicate

CRQL = Contract-Required Quantitation limit.

Dup = Duplicate

Sr. Strontium

QA/QC = Quality assurance/quality control

Contract No. EP-S3-10-14

#### FIELD AND QC SAMPLING SUMMARY

#### DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

#### NAREL Lab

		Field			Total Field and				
Parameter/Method	Matrix	Samples	Bkgd	Dup	Trip <sup>1</sup> Blanks	Rinsate <sup>1-2</sup> Blanks	Field' Blanks	MS/MSD	QA/QC Analyses (not including MS/MSD) <sup>3</sup>
Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (901.1)	drinking	60	0	6	0	0	5	0	71
Ra-226 (903.1)	drinking	60	0	6	0	0	.5	0	71
Ra-228 (904.0)	drinking	60	0	6	0	0	5	0	71
Gross Alpha/Beta (900.0)	drinking	60	0	6	0	0	5	0	71

Notes:

1. This QA sample will be an aqueous matrix.
2. Sample to be collected only if non-dedicated sampling equipment is used.
3. Estimate based on 5 sampling days.

Key:

Bkgd = Background
MS/MSD = Matrix Spike/Matrix Spike Duplicate
CRQL = Contract-Required Quantitation limit.

Dup = Duplicate

QA/QC = Quality assurance/quality control

Sr = Strontium

Contract No. EP-S3-10-14

#### FIELD AND QC SAMPLING SUMMARY

#### DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

TechLaw Pace Lab

V		Field	l		QC	Total Field and			
Parameter/Method	Matrix	Samples	Bkgd	Dup	Trip <sup>1</sup> Blanks	Rinsate <sup>mz</sup> Blanks	Field¹ Blanks	MS/MSD	QA/QC Analyses (not including MS/MSD) <sup>3</sup>
Bacteria (total coliform, HPC)	drinking water	60	0.	6	0	0	5	:0:	71
Turbidity, Nephelometric (180.1) (Field measurement)	drinking water	60	0	6	0	0.	5	0	71
Notes:	M-400	THE PERSON NAMED IN COLUMN TWO			200000000000000000000000000000000000000				,

Dup ≈ Duplicate

***************************************	mm	***************************************
Not	es	:

1. This QA sample will be an aqueous matrix.

2. Sample to be collected only if non-dedicated sampling equipment is used.

3. Estimate based on 5 sampling days

Bkgd = Background

MS/MSD = Matrix Spike/Matrix Spike Duplicate  $\label{eq:cross-contract-Required Quantitation limit.} \textbf{CRQL} = \textbf{Contract-Required Quantitation limit.}$ 

QA/QC = Quality assurance/quality control

Sr = Strontium

Contract No. EP-S3-10-14